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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/937,275	03/04/2002	Nacerdine Azzi	RCA 89433 (PF990009)	8474	
75	590 09/05/2003		i		
Joseph S Tripoli			EXAMINER		
Thomson Multimedia Licensing PO Box 5312		DONG, DALEI			
Princeton, NJ	08543-5312		ART UNIT PAPER NUMBER 2875		
			DATE MAIL ED: 00/05/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

		\sim	Da				
	Application No.	Applicant(s)					
	09/937,275	AZZI ET AL.					
Office Action Summary	Examin r	Art Unit					
	Dalei Dong	2875					
Th MAILING DATE of this communication appears on the cover she t with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a re y within the statutory minimum of thirty will apply and will expire SIX (6) MONT , cause the application to become ABA	ply be timely filed (30) days will be considered timely. HS from the mailing date of this con NDONED (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on <u>08 A</u>	<u> August 2003</u> .						
2a)⊠ This action is FINAL . 2b)□ Th	is action is non-final.						
Since this application is in condition for allowated closed in accordance with the practice under Disposition of Claims			e merits is				
4) \boxtimes Claim(s) <u>1-3,5 and 6</u> is/are pending in the app	olication.						
4a) Of the above claim(s) is/are withdraw	wn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-3,5 and 6</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>08 August 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.							
If approved, corrected drawings are required in rep							
12) The oath or declaration is objected to by the Ex	aminer.						
Priority under 35 U.S.C. §§ 119 and 120							
13)⊠ Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. §	119(a)-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:							
 Certified copies of the priority documents 	s have been received.						
2. Certified copies of the priority documents	s have been received in Ap	plication No. <u>09/937,275</u>	•				
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language pro	ovisional application has be	en received.	,				
Attachment(s)		- -					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of In	ummary (PTO-413) Paper No(s formal Patent Application (PTC	·				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 1-3 and 5-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 1, the phrase "substantially" renders the claim indefinite because it is unclear whether the limitation(s) following the phrase are part of the claimed invention.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-3 and 5-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S> Patent No. 5,854,532 to Kuwahara in view of U.S. Patent No. 4,152,685 to Renders.

Regarding to claims 1-3 and 5-6, Kuwahara discloses in Figure 8, a "<u>vertical</u> <u>deflection</u> coil of the <u>deflection</u> yoke device of the third embodiment. As shown in FIG. 8, with respect to the winding of the <u>vertical deflection</u> coil 40, the winding is started

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from a second smaller arcuate interconnecting portion 42 of a horseshoe-shape at a neck side 23 in parallel to a tube axis plane 22 perpendicular to a tube axis 21, and then the winding proceeds sequentially through one of two second longitudinal portions 43, a second larger arcuate interconnecting portion 44 of a horseshoe-shape at a diverged side 26, and the other second longitudinal portion 43. Then the winding is again made at the second smaller arcuate interconnecting portion 42 at the neck side 23. This winding operation is repeated to form the <u>vertical deflection</u> coil 40" (column 9, line 60 to column 10, line 5).

Kuwahara also discloses in Figure 8, "thus, the <u>vertical deflection</u> coil 40 is constructed such that the two second longitudinal portions 43 are interconnected to the second larger arcuate interconnecting portion 44 and the second smaller arcuate interconnecting portion 42, thus assuming the saddle-like contour, and the second smaller arcuate interconnecting portion 42 and the second larger arcuate interconnecting portion 44, respectively, are connected generally perpendicularly to the two second longitudinal portions 43" (column 10, line 6-14).

Kuwahara further discloses in Figure 8, "the pair of <u>vertical deflection</u> coils 40 are butted together in such a manner that the second longitudinal portions 43 of these coils 40 are opposed to each other, and positions where the second longitudinal portions 43 are butted together are registered in the peripheral direction with positions where the cores 41 are butted together with their concave sides opposed to each other, thereby assuming a bell of a trumpet. The pair of horizontal <u>deflection</u> coils 17 are butted together with the first longitudinal portions 25 of these coils 17 opposed to each other, and positions where

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the first longitudinal portions 25 are butted together are registered with the positions of core peaks of the cores 41 in a circumferential direction" (column 10, line 15-27).

Kuwahara further yet discloses in Figure 8, "in the deflection yoke device constructed in this manner, an action of electron beams is generally the same as that of the first embodiment shown in FIGS. 4 and 5. More specifically, the horizontal deflection coils 17 produce a deflecting magnetic field 29, and a region at which the deflecting magnetic field 29 is exerted increases in length progressively from the center of the deflecting magnetic field 29 toward the outer sides, so that an angle theta., at which electron beams are deflected increases, thereby increasing a deflection amount D. Therefore, similar effects as achieved in the first embodiment can be obtained" (column 10, line 28-39).

However, one pair of saddle-shaped coils lies in a radial angular position greater than 5° at least in the front part of the coil. Renders teaches in Figures 2c to 2e, "the prefolded coil is pressed to obtain its ultimate shape in a jig (not shown), the coil-preferably being heated as usual. During pressing the coil is shaped as shown in a plan view in FIG. 2c, in a rear view in FIG. 2d, and in a side elevation in FIG. 2e. These Figures clearly show that the portions of the plane of the turns which are situated on each side of each of the folding lines 17 enclose an angle of substantially 0 degree., so that the turns are arranged one over the other at these areas. The Figures also show that each turn crosses all other turns at the area of the folding lines 17. For example, the turn 13 which was situated completely on the outer side of the coil in FIG. 2a, is still situated on the outer side in the foremost and rearmost portions 19 and 21 (now forming coil heads), but

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crosses over to the inner side at the transitions between the coil heads and the active sides 23, so that in the side portions it extends along the window 25 enclosed by the coil. Conversely, the turn 9 extends on the inner side along the window 25 in the coil heads, like in FIG. 2a, and along the outer side in the side portions. It is clearly visible that all other turns extend similarly at the folding lines 17 with respect to the window 25, so that at these areas the turns cross each other" (column 2, line 40-63).

Render also teaches "the coil shown in the FIGS. 2c to d is an elementary coil which, when current is conducted therethrough, generates a magnetic field of a shape which is determined by the shape of the coil. FIGS. 3 and 4 show similar elementary coils of a slightly different shape which, consequently, produce other magnetic fields when current is conducted therethrough. For the sake of clarity, the same references have been used in all three Figures for corresponding parts of the coils. The indications of the individual turns and the connection wires have been omitted for the sake of simplicity. In some cases a deflection coil can consist of one elementary coil or a plurality of elementary coils of the same shape. The latter is the case if, for example, the conductor constituting the elementary coil is too thin for the desired deflection current. The use of thicker conductors may cause problems during the folding. Therefore, in such a case preferably a number of flat coils are stacked, after which they ate prefolded and pressed into the ultimate shape together" (column 2, line 64 to column 3, line 15).

Render further teaches in figures 3e and 5c, where the at least part of the saddle shaped coil lies in a angular position substantially equal to zero from the rear part of the coil to a point lying within the intermediate region.

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to have construct the vertical deflection coil of Kuwahara with radial angular position greater than 5° according to Renders in order to improve the accuracy of the electron converging on the display screen and enhances a horizontal deflection efficiency, and eliminates a color shift of a convergence at a peripheral portion and an intermediate portion of a tube surface.

Response to Arguments

5. Applicant's arguments filed August 8, 2003 have been fully considered but they are not persuasive.

In response to Applicant's primary argument that Kuwahara reference in view of Render reference fails to suggest or teach the arrangement of the lateral harnesses as claimed in claim 1; Examiner asserts that Render reference clearly and distinctively shown in Figures 2c to 5e, a saddle shaped-coil lies in a radial angular position greater than 5 degrees in the front part of the coil and in an angular position substantially equal to zero from the rear part of the coil to a point lying within the intermediate region. Further, it has been held that a recitation with respect to the manner in which a claimed apparatus in intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. *Ex Parte Masham*, 2USPQ 2d 1647 (1987). Thus, Kuwahara reference in view of Render reference is valid and maintains the rejection.

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Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dalei Dong whose telephone number is (703)308-2870. The examiner can normally be reached on 8 A.M. to 5 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on (703)305-4939. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0956.

D.D. August 26, 2003

Supervisory Patent Examiner

Technology Center 2800